



ISA/IEEE
APRIL MEETING,
APR.21, 2008

**"Variable Frequency Drives"
Presentation**

Location: Americas Best Value Inn
(I-20 - EXIT 199)
3023 Washington Road
Augusta

Speaker: Chris Carroll, Rockwell Automation

Price : \$5 with RSVP for ISA/IEEE members by Mon
day noon April. 21, 2008
\$10 for non-members & ISA/IEEE members
without RSVP
Dinner will be served during presentation.

Time : 6:00 pm to 8:00 pm

RSVP: Send email to isaga@gabn.net before 4/21 at
noon.

Door Prizes: Door prizes for members!

Title: Variable Frequency Drives

Speaker: AC DC Drives Manager with
31 years experience

Abstract: Lecture on the theory of load side issues
such as reflected wave, common mode noise and cable
charging currents will be presented in this ses-
sion. Solutions for each issue and case studies will be
provided. A focus on Power Quality issues that every
drive manufacturer can be subjected to. We will pre-
sent the major contributors to Power Quality problems
and explain why they exist, and what can be done to
eliminate or minimize the effect on Variable Frequency
Drives. A discussion will be held on Wiring and
grounding guide lines for PWM drives.

**A question and Answer session will follow the
presentation.**

Speaker's Biodata:

Chris Carroll,
Sr. Drives and Power Business Area Manager,
Rockwell

He has been involved with AC and DC Drives for over 31
years. In 1987, he joined Rockwell Automation and has been em-
ployed there for the past 21 years. For the first 11 years, he was a
Field Service Engineer traveling throughout the world commis-
sioning drive systems and troubleshooting. During the last 10
years with Rockwell Automation, he has managed the Drives and
Power Business throughout Georgia, North and South Caro-
lina. Born in Rock Hill, SC, has a BS in Electronics



SAVANNAH RIVER SECTION

SAVANNAH RIVER SECTION CALENDAR:

- Sept: Kick off meeting. Honeywell wireless
- Oct: Control Room consolidation, Rich Izard, SRS
- Nov: Plant tour: DSM Chemicals
- Dec: Digital Buses: Control Southern
- Jan: Control Loop variability : Larry Hammett, international Paper
- Feb: Object Oriented Programming
- Mar: PEN Show
- Apr: Variable Frequency Drives
- May: **Designing Fieldbuses for Control System**

Savannah River Section Members:

Our March PEN Show was a great success! There were 360 attendees including 120 vendors; 71 table tops, 51 plus distributors, manufacturers representatives and experts were the high light of the program. Heavy H'oderves and door prizes need a mention. The following are some of the membership pictures for the PEN show:



1. Table top w/ Beth Ligon
2. Senior most member
3. Table top w/ S.Montgomery
4. Mem w/dr pz
5. Elec Eng w/ GPS dr. prize
6. Jim Lawrence for new mem enrollment

National Membership Drive

Our section is taking part in National Membership Drive. Jim Lawrence and our section board is making special effort for enrollment. If you help enrolling any new member, we would like to honor you. We had 16 new members enroll at the PEN Show!!



6

54th international Instrumentation Symposium will be held from May 5-9 in Pensacola Beach, FL. Please go to www.isa.org for more details & exhibition information.



2



3



4



5

OUR GOAL IS TO BRING TO YOU LATEST KNOWLEDGE & TECHNOLOGY; YOUR ATTENDANCE WILL ENCOURAGE US IN ACHIEVING THIS GOAL..

Savannah River Section of ISA

Training Seminar

Designing Fieldbuses for Control Systems

Date: May 16, 2008
Location: Augusta Technical College
Room 633
Albert G. Huntington Bldg.
Augusta, GA
Time: 8:00 AM – 4:30 PM
Cost: \$50/members or \$125/Non-members
(Lunch included)Top of Form
Credits: CEU's are available on request

Note: SPACE IS LIMITED.

Description: This seminar is for individuals wanting a better understanding of Foundation Fieldbus, AS-I, DeviceNet, Profibus DP and wireless communication busses.

The course objectives are as follows:

- Introduction to various fieldbusses
- Benefit of each type of fieldbus
- Requirements of the various fieldbusses such as:
 - Addressing
 - Operating Modes
 - Devices
 - System Parameters
 - Segment
 - Typical Wiring Topologies
 - Designing Segments
 - Segment Design Considerations

- Instrument Functionality
- Assigning Devices
- Device Types
- Distance Limits
- Extenders
- Repeaters
- Power Requirements
- Grounding Requirements
- Power Consumption
- Wiring Design
- Standards
- Functional Specifications
- Instrument List
- Instrument Specification Sheets
- DCS Configuration
- Drawings
- Loop Sheets
- Cable Schedule

And finally, design considerations for the overall fieldbus installation from the overall control system perspective and economics of the various busses.

Instructor: Dan Daugherty has over 25 years of experience in the Process and Automation industries. After obtaining his B.S. degree in Electrical Engineering, he worked as an Instrumentation Engineer in the Petrochem industry before going on to Eagle Signal Controls where he designed and applied programmable controllers in a wide variety of applications -- including serial digital communications. Following that, he joined the Fieldbus Foundation, where he managed Device Description technology. He has been employed for the last 5 years by Emerson Process Management as a consultant working with FOUNDATION fieldbus, Profibus DP, DeviceNet and Wireless applications.

The seminar is being presented by the Emerson Process Management Education Services group. They will not be "selling" Emerson, but do need some hardware to effectively demo the buses, and therefore DeltaV is a platform from which to make it work. The Delta V communicates with all these busses.

For more information call:

Jim Mitchell @ 803-648-6931

Jim.mitchell@member.isa.org

Registration form

May 16, 2008

Savannah River Section of ISA training course:
Designing Fieldbuses for Control Systems

Room 633

Albert G. Huntington Bldg

Augusta Technical College

Augusta, Ga.

Course starts at 8:00 AM

Name: _____ Position/Title: _____

Company: _____

Street Address: _____

City: _____ State/Zip: _____

Telephone: _____

E-mail Address: _____

Member Cost: \$50*

My ISA member number is: _____

Non Member Cost: \$125*

(Are you interested in becoming a member of ISA: Yes / No)

* Lunch Included

Registration Deadline: May 5, 2008

After May 5, 2008 add late fee of \$15

(Space is limited, register early)

Make checks payable to the Savannah River Section of ISA

**Remit to: The Savannah River Section of the ISA
PO Box 702
New Ellenton, South Carolina 29809**



SAVANNAH RIVER SECTION BOARD

Jim Merz

President

Phone: (706) 373-1498

jim.merz@controlsouthern.com

Lance Brown

Education Chair

Phone: (803) 643-1625

Fax: (706) 650-8812

Lance.brown@parsons.com

Madanjit Singh

Vice President & Delegate

Phone: (706) 868-0015

madanjit@aol.com

James Hyder

Special Assignment

Phone: (706) 724-8225

Fax: (706) 724-8422

James.hyder@ch2m.com

Jim Mitchell

Treasurer

Phone: (803) 648-6931

Mitchell_jim@usa.net

Beth Ligon

Marketing Chair

Phone: (706) 796-7762

Beth@bibbcontrols.com

N. Shah

Secretary

Phone: (706) 863-6976

tinvan1@hotmail.com

Jim Lawrence

Membership Chair

Phone: (706) 724-8225

Jim.lawrence@ch2m.com

Larry Omstead

Webmaster

Phone: (803) 208-6778

Larry.omstead@srs.gov

Justin Weaver

Assist. Webmaster

Justin.weaver@srs.gov

Dalton Wilson

Staff Contact

Phone: (919) 990-9280

Fax: (919) 549-8288

Ed McDonnell

Special Assignment

Phone: (706) 849-6725

ed.mcdonnell@dsm.com